System Recommendations for SigC5561 Card Usage

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Recommended Systems for SigC5561-PTMC

The SigC5561-PTMC has been successfully tested in the systems listed below.

1. Recommended SigC55xx-PTMC VoIP Configuration

All SigC55xx-PTMC board set configuration includes a 64-bit single slot PMC to PCI carrier adapter card.

1.1. SigC5561-PTMC DSP optional

1. Options on the number of DSP installed on SigC55xx-PTMC card are for 2-DSP, 7-DSP, or 12-DSP.
2. Additional information for the SigC55xx-PTMC can be obtained at website http://signalogic.com/index.pl?page=sigc5561_ptmc, and http://signalogic.com/index.pl?page=asterisk_ip_pbx.

2. Recommended Systems, Hardware

2.1. Server Recommendations

1. PCI slot in which the SigC5561 card will be used should conform to PCI 2.2 specification. Specifically, the PCI slot should provide 25W power and full-height, half length PCI card mechanical fit.
2. The server chassis should provide adequate airflow over the PCI expansion area. At least 50 CFM is recommended for the SigC5561 card.
3. All server fans should be rated to a minimum of 100,000 MTBF.
4. If possible, the power supply should be positioned on the opposite side of the chassis as PCI expansion area.
5. The server chassis should conform to proper earth/chassis grounding practices. In particular, signal ground at the PCI slot should not be tied to chassis ground. The SigC5561 card conforms to GR 1089 regulatory requirements for surge suppression and isolation; the card expects a separate chassis ground to be maintained from PCI slot GND signals and, if applicable, PCI riser GND signals. The SigC5561 card implements chassis GND via mounting hardware and backplate.

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2.2. Intel SR2400 2U Server

1. Additional information for the Intel SR2400 2U Server can be obtained at website http://www.intel.com/design/servers/chassis/sr2400/
2. The system is recommended to have redundancy cooling on the PCI slot side of the system. Please reference ***Picture 1a*** for detail. Configuration for redundancy cooling has product order code of "ADRREDFANS". Additional information can be found at website http://www.intel.com/design/servers/chassis/sr2400/ordercodes.htm

2.3. Supermicro 1U Server (SB-614B-4B-UI003B)

1. Additional information for the Supermicro 1U Server OEM can be found at website http://www.supermicro.com/products/barebone/1U/SB-614V-4.cfm
2. The system is recommended to have fan installed for the PCI riser side of the system. Fan part # FAN-0085L x 2, 40 x 40 x 56 mm each, can be implemented to use for this 1U server. Up to two fans can be installed in the chassis space allowed, but one fan is sufficient. Reference ***Picture 2***.
3. Additional fans part numbers for Supermicro systems can be found at website http://www.supermicro.com/products/accessories/index.cfm, and in PDF file link at http://www.supermicro.com/manuals/matrices/ThermalMatrix.pdf

2.4. DELL PowerEdge 600SC Desktop Platform

1. Additional information for DELL PowerEdge 600SC can be found at www.dell.com
2. ***Picture 3a and 3b*** references the inside of the desktop.
3. It is recommended to replace the existing chassis fan for PCI slots area with more powerful cooling fan JMC manufacturer part # 9238-12HH, with datasheet link http://www.jmcproducts.com/products/dc_fans/92x92x38mm.shtml. This request is made to DELL upon ordering of the system.

3. Recommended Systems, Software

Signalogic supplies a Linux Kernel Module (LKM) driver. Upon request an example of test program source code and API header will be provided. More information can be provided under the NDA.

3.1. Linux CentOs

1. Supported CentOs Release 4.4, kernel version 2.6.9-42.ELsmp.

3.2. Linux RedHat

1. Supported RedHat Release 9.0, kernel version 2.4.20-8.

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4. Other Recommendations

For successful SigC5561-PTMC operational functionality, Gigabit Ethernet (10/1000 T-Base) switches are required to be used. CAT 6 network cables are strongly recommended to be used for connections between the SigC5561-PTMC card and the Gigabit Ethernet switches.

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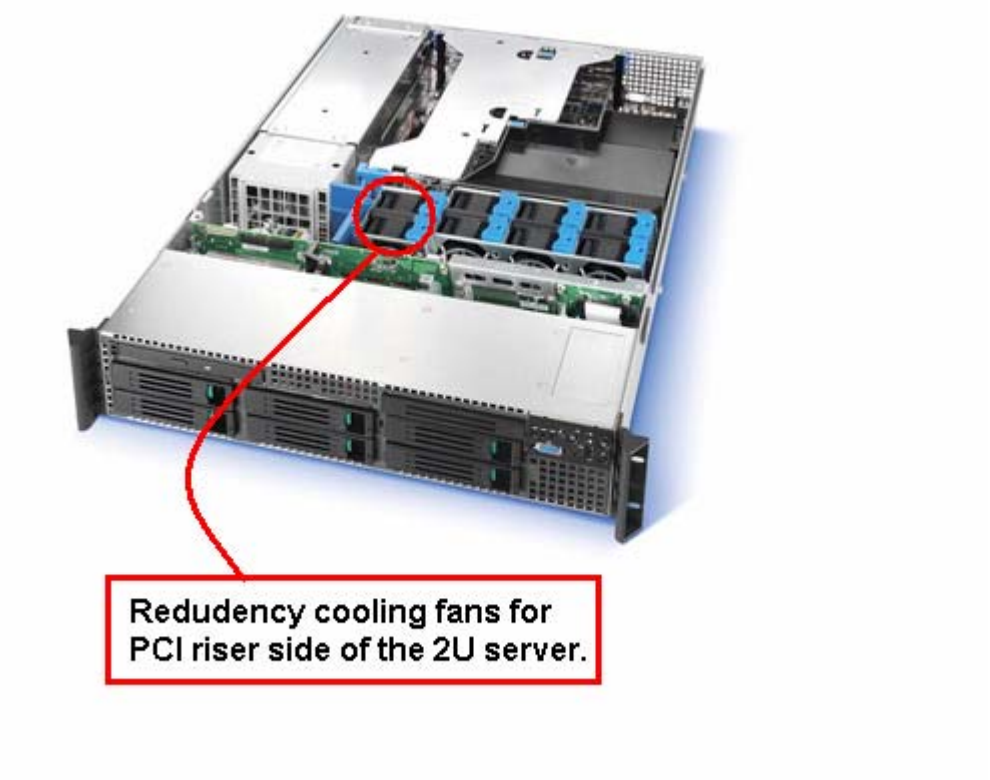
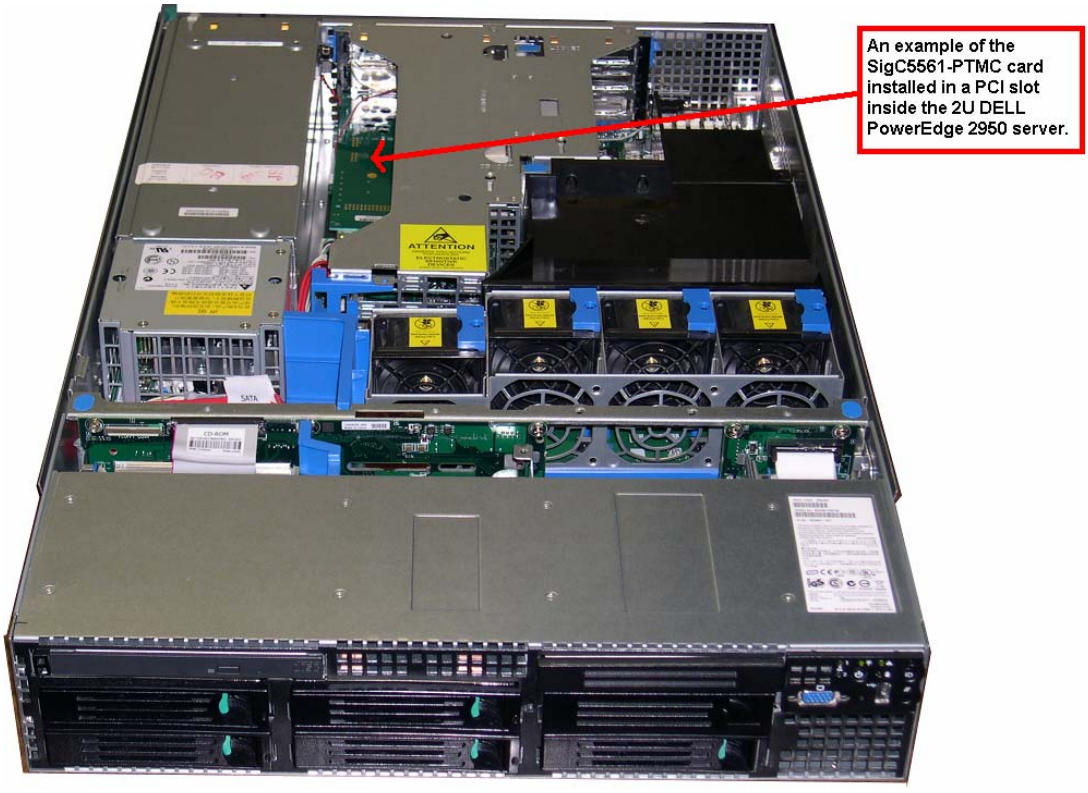
5. Reference Section

Picture 1a: Redundancy cooling fans for PCI riser side .



Picture 1b: Example of SigC5561-PTMC card installed inside a 2U server .



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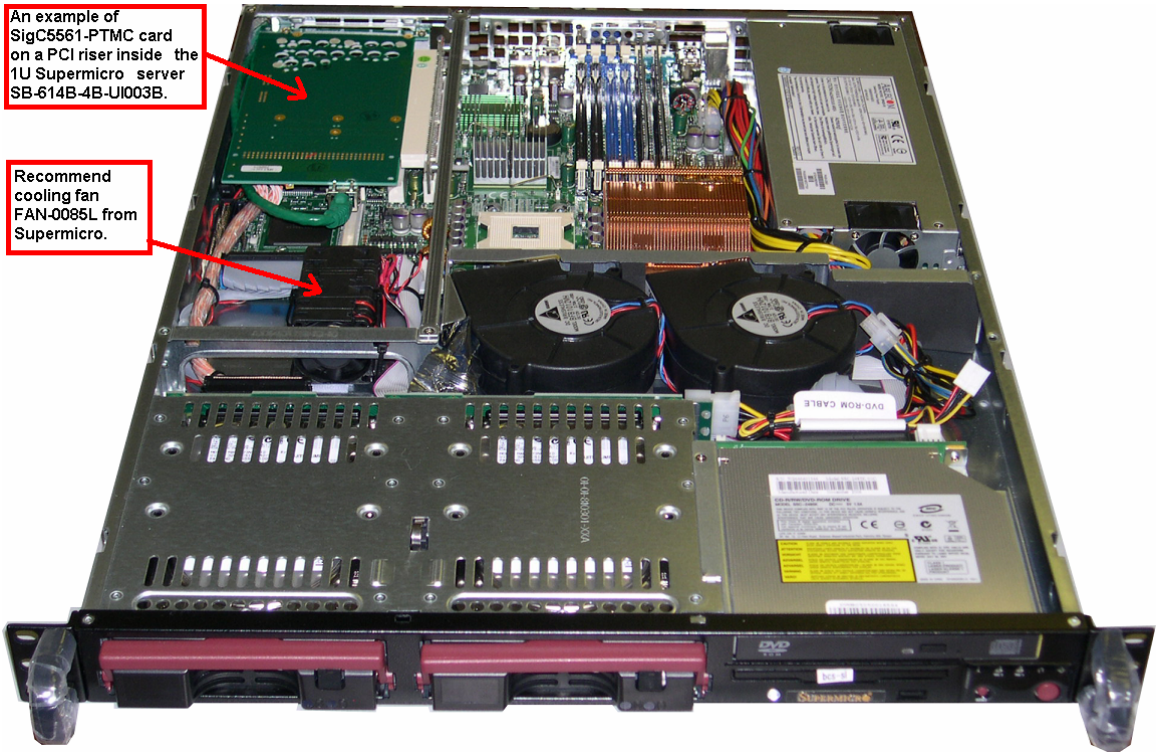
Picture 2: Additional fan inside 1U chassis for sufficient cooling for PCI card.


An example of SigC5561-PTMC card on a PCI riser inside the 1U Supermicro server SB-614B-4B-UI003B.
Recommend cooling fan FAN-0085L from Supermicro.

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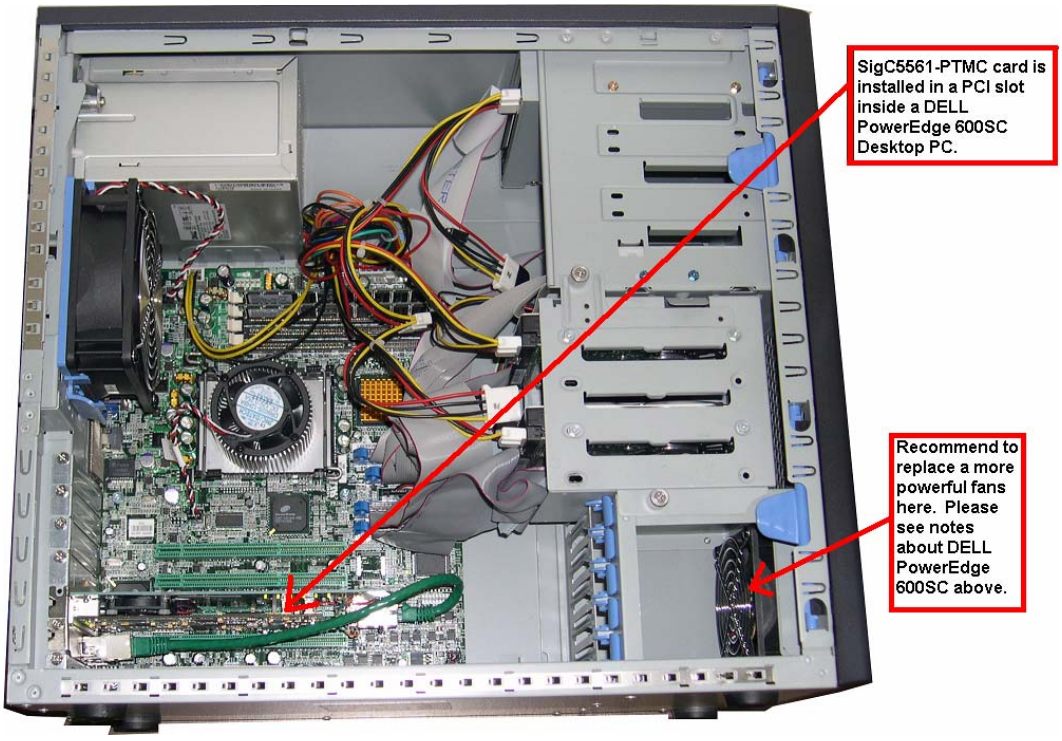
Picture 3a: DELL PowerEdge 600SC inside view of system.

Picture 3b: DELL PowerEdge 600SC inside view of system.


SigC5561-PTMC card is installed in a PCI slot inside a DELL PowerEdge 600SC Desktop PC.
Recommend to replace a more powerful fans here. Please see notes about DELL PowerEdge 600SC above.